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Smith et al.

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[54] MICA-FREE JOINT COMPOUND

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[52] U.S. Cl. **106/109**

[58] Field of Search 106/109, 110, 111;
423/555

[56] **References Cited**

U.S. PATENT DOCUMENTS

3,891,453	6/1975	Williams	106/109
3,975,320	8/1976	Lane et al.	106/109
4,152,408	5/1979	Winslow	106/109

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[57] **ABSTRACT**

A joint compound, having crack resistance substantially equal to joint compounds containing mica, wherein the mica has been replaced by low length to width ratio gypsum crystals formed by the hydration of calcium sulfate to calcium sulfate dihydrate, particularly crystals formed in the presence of citric acid.

10 Claims, No Drawings